

REMARKS

I. Amendments to Specification

New paragraph beginning on page 1, line 3

This paragraph has been added as required under 37 CFR 1.78(a)(2).

Amended paragraph beginning on page 14, line 2 and ending on page 14, line 11

The phrase, “wherein the transmitter emits a signal of a *known* frequency and *known* modulation scheme,” (emphasis added) has been added for clerical reasons. The specification as originally filed contains a reference to a “particular” modulation scheme (ref: page 25, line 12). Further, the mathematical discussion beginning on page 32, line 17 lists a number of known and unknown parameters. Known parameters include modulation scheme parameters (ref: page 26, lines 2-4) as well as frequency (ref: page 26, line 5). The phase difference is the unknown parameter that must be computed (ref: page 26, line 6). Still further, the specification as originally filed states: “Thus, the transmitter sends a *standard data-modulated signal*, which could be any type of communications signal.” (emphasis added) (ref: page 22, lines 10-11). “Standard” implies known in the art. Therefore, the addition of the phrase identified above is a clerical addition and has not been added to overcome any prior art.

Amended paragraph beginning on page 14, line 12 and ending on page 15, line 3

The phrase, “of a *known* frequency and *known* modulation scheme,” (emphasis added) has been added for clerical reasons. Refer to the justification given for the “Page 14, Line 2” amendment above.

Amended paragraph beginning on page 18, line 9 and ending on page 18, line 18

The phrase, “of a *known* frequency and *known* modulation scheme,” (emphasis added) has been added for clerical reasons. Refer to the justification given for the “Page 14, Line 2” amendment above.

Amended paragraph beginning on page 22, line 3 and ending on page 22, line 19

The phrase, “of a *known* frequency and *known* modulation scheme,” (emphasis added) has been added for clerical reasons. Refer to the justification given for the “Page 14, Line 2” amendment above.

Amended paragraph beginning on page 25, line 5 and ending on page 25, line 9

The term “cos ϕ ” has been replaced by “sin ϕ ” to correct a typographical error.

Amended paragraph beginning on page 26, line 12 and ending on page 26, line 17

The word “known” has been added in the first sentence of this paragraph for clerical reasons. Refer to the justification given for the “Page 14, Line 2” amendment above.

Amended paragraph beginning on page 42, line 7 and ending on page 43, line 4

The word "theoretical" has been added in the first sentence of this paragraph to make it clear that the operational "hemisphere" is a theoretical operational hemisphere. An actual operational field of view may be less than 180 degrees due to the type of antennas used and inherent inefficiencies. The phrase, "(i.e., 180 degree field of view)," has been added for clerical reasons to provide further definition to the word "hemisphere." The added sentences in this paragraph provide additional clarification. This information is not new matter because 140 degrees is a subset of 180 degrees.

II. Amendments to Claims

Claim 56

Claim 56 is functionally equivalent to cancelled Claim 1 (as originally filed) with the exception that the limitation "known frequency and known modulation scheme" has been added in the preamble. Prior art references used in the prosecution of the parent application (ref: US Patent Application Serial No. 09/994,989) identified systems that either located targets with no signal, unknown signal(s), or otherwise undetermined.

Claim 60

Claim 60 incorporates the formulas referenced in the specification as currently amended on page 25, line 7.

Claim 61

Claim 61 incorporates the limitation of an operational field of view of 180 degrees.

Claim 62

Claims 62 incorporates the limitation of an operational field of view of 140 degrees.

Claim 67

Claim 67 is functionally equivalent to Claim 11 as originally filed with the exception that the limitation “and wherein said transmitter signal has a known frequency and a known modulation scheme,” has been added. Prior art references used in the prosecution of the parent application (ref: US Patent Application Serial No. 09/994,989) identified systems that either located targets with no signal, unknown signal(s), or otherwise undetermined.

Claim 68

Claim 68 incorporates the formulas referenced in the specification as currently amended on page 25, line 7.

Claim 70

Claim 70 incorporates the formulas referenced in the specification as currently amended on page 25, line 7. Further, Claim 70 modifies the nomenclature for the representative angles and phase differences to reflect a second vector and associated phase difference for the second vector. The

added nomenclature is clerical in nature, is not new matter, and has not been added to overcome prior art.

Claim 83

Claim 83 incorporates the limitation “each of said plurality of moveable transmitters having a *known* transmitter frequency and *known* transmitter modulation scheme” (emphasis added) in the preamble. Prior art references used in the prosecution of the parent application (ref: US Patent Application Serial No. 09/994,989) identified systems that either located targets with no signal, unknown signal(s), or otherwise undetermined.

Claim 84

Claim 84 incorporates the formulas referenced in the specification as currently amended on page 25, line 7.

Claim 91

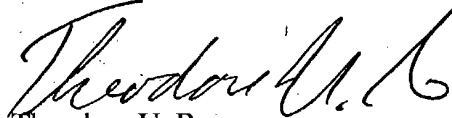
Claim 91 incorporates the limitation “a known wavelength, a known transmitter frequency, and a known transmitter modulation scheme,” in the preamble. Prior art references used in the prosecution of the parent application (ref: US Patent Application Serial No. 09/994,989) identified systems that either located targets with no signal, unknown signal(s), or otherwise undetermined.

Claim 91 incorporates the term "to a vector oriented in" in the determining information step to establish proper antecedent basis for new Claim 92.

Claim 92

Claim 92 incorporates the formulas referenced in the specification as currently amended on page 25, line 7.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Theodore U. Ro". The signature is fluid and cursive, with the first name "Theodore" being more prominent and the last name "Ro" being shorter and more stylized.

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